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                 STN pricing information for 2008 now available
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                 CAS patent coverage enhanced to include exemplified
                 prophetic substances
NEWS 18 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new
                 custom IPC display formats
NEWS 19 JAN 28 MARPAT searching enhanced
NEWS 20 JAN 28 USGENE now provides USPTO sequence data within 3 days
                 of publication
NEWS 21 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 22 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
NEWS 23 FEB 08 STN Express, Version 8.3, now available
NEWS 24 FEB 20 PCI now available as a replacement to DPCI
NEWS 25 FEB 25 IFIREF reloaded with enhancements
NEWS 26 FEB 25
                 IMSPRODUCT reloaded with enhancements
NEWS 27 FEB 29
                 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                 U.S. National Patent Classification
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L2 38 DUP REM L1 (0 DUPLICATES REMOVED)

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L2 ANSWER 1 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2008:43630 USPATFULL

TITLE: Profilin and related immunomodulatory ligands

INVENTOR(S): Zlatkin, Igor, Lansing, MI, UNITED STATES

McCormick, J. Justin, Port Austin, MI, UNITED STATES

PATENT ASSIGNEE(S): Michigan State University, East Lansing, MI, UNITED

STATES (U.S. corporation)

NUMBER DATE

PRIORITY INFORMATION: US 2005-751195P 20051216 (60) US 2006-801036P 20060517 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: WILMERHALE/BOSTON, 60 STATE STREET, BOSTON, MA, 02109,

HS

NUMBER OF CLAIMS: 78 EXEMPLARY CLAIM: 1

82 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 10613

The invention provides profilin-related immunomodulatory polypeptides AB and toll-like receptor agonists, as well as related pharmaceutical compositions and methods of treatment, useful for treating cancer and infectious disease.

ANSWER 2 OF 38 USPATFULL on STN

2007:296967 USPATFULL ACCESSION NUMBER: TITLE: Albumin fusion proteins

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR(S): Haseltine, William A., Washington, DC, UNITED STATES

Ballance, David J., Berwyn, PA, UNITED STATES

Turner, Andrew J., King Of Prussia, PA, UNITED STATES Ruben, Steven M., Brookeville, MD, UNITED STATES Human Genome Sciences, Inc., Rockville, MD, UNITED

PATENT ASSIGNEE(S): STATES (U.S. corporation)

Delta Biotechnology Limited, Nottingham, UNITED KINGDOM

(non-U.S. corporation)

NUMBER KIND DATE _____ ___ US 2007259815 A1 20071108 US 2007-783419 A1 20070409 PATENT INFORMATION:

20070409 APPLICATION INFO.: (11)

RELATED APPLN. INFO.: Division of Ser. No. US 2006-429373, filed on 8 May

2006, GRANTED, Pat. No. US 7238667 Continuation of Ser. No. US 2004-775204, filed on 11 Feb 2004, GRANTED, Pat.

No. US 7141547 Continuation of Ser. No. WO 2002-US40891, filed on 23 Dec 2002, PENDING

NUMBER DATE _____ US 2001-341811P 20011221 (60) PRIORITY INFORMATION:

US 2002-350358P 20020124 (60) US 2002-351360P 20020128 (60) US 2002-359370P 20020226 (60) US 2002-360000P 20020228 (60) US 2002-367500P 20020327 (60) US 2002-370227P 20020408 (60) US 2002-378950P 20020510 (60) US 2002-382617P 20020524 (60) US 2002-383123P 20020528 (60) US 2002-385708P 20020605 (60)

US 2002-394625P 20020710 (60) US 2002-398008P 20020724 (60) US 2002-402131P 20020809 (60)

US 2002-402708P 20020813 (60) US 2002-411426P 20020918 (60) US 2002-411355P 20020918 (60)

US 2002-414984P 20021002 (60) US 2002-417611P 20021011 (60) 20021011 (60) 20021023 (60) US 2002-420246P

20021105 (60) US 2002-423623P Utility

DOCUMENT TYPE: FILE SEGMENT: APPLICATION

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, LEGAL REPRESENTATIVE:

901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 24746

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

ANSWER 3 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:278614 USPATFULL Albumin fusion proteins TITLE:

Rosen, Craig A., Laytonsville, MD, UNITED STATES INVENTOR(S):

Haseltine, William A., Washington, DC, UNITED STATES Ruben, Steven M., Brookeville, MD, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

Delta Biotechnology Limited, Nottingham, UNITED KINGDOM

(non-U.S. corporation)

NUMBER KIND DATE _____ ___ US 2007244047 A1 20071018 US 2007-714841 A1 20070307 PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

20070307 (11)Division of Ser. No. US 2006-429276, filed on 8 May 2006, PENDING Continuation of Ser. No. US 2004-775204,

filed on 11 Feb 2004, GRANTED, Pat. No. US 7141547 Continuation of Ser. No. WO 2002-US40891, filed on 23

Dec 2002, PENDING

NUMBER DATE PRIORITY INFORMATION: US 2001-341811P 20011221 (60) US 2002-350358P 20020124 (60) US 2002-351360P 20020128 (60) US 2002-359370P 20020226 (60) US 2002-360000P 20020228 (60) US 2002-367500P 20020327 (60) US 2002-370227P 20020408 (60) US 2002-378950P 20020510 (60) US 2002-382617P 20020524 (60) US 2002-383123P 20020528 (60) US 2002-385708P 20020605 (60) US 2002-394625P 20020710 (60) US 2002-398008P 20020724 (60) US 2002-402131P 20020809 (60) US 2002-402708P 20020813 (60) US 2002-411355P 20020918 (60) US 2002-411426P 20020918 (60) US 2002-414984P 20021002 (60) US 2002-417611P 20021011 (60) US 2002-420246P 20021023 (60) US 2002-423623P 20021105 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US NUMBER OF CLAIMS: 20 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 24858

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

L2 ANSWER 4 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:256245 USPATFULL

TITLE: Diagnostic methods for diseases by screening for

hepcidin in human or animal tissues, blood or body fluids; monoclonal antibodies specific to human

hepcidin and associated uses therefor

INVENTOR(S): Kulaksiz, Hasan, Heidelberg, GERMANY, FEDERAL REPUBLIC

OF

Geacintov, Cyril E., Mountainside, NJ, UNITED STATES

Jentzko, Alfred, Butzbach/Nieder-Weisel, GERMANY,

FEDERAL REPUBLIC OF

NUMBER KIND DATE
-----US 2007224186 A1 20070927

PATENT INFORMATION: US 2007224186 A1 20070927 APPLICATION INFO.: US 2007-657772 A1 20070125 (11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-441089, filed

on 19 May 2003, PENDING Continuation—in-part of Ser. No. US 2002-299486, filed on 19 Nov 2002, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FOX ROTHSCHILD LLP, PRINCETON PIKE CORPORATE CENTER,

997 LENOX DRIVE, BUILDING #3, LAWRENCEVILLE, NJ, 08648,

US

NUMBER OF CLAIMS: 41 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Page(s)

LINE COUNT: 3597

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention concerns antibodies specific for the C-terminus of AΒ human hepcidin, and related methods and kits for diagnosing and/or treating a disease condition characterized by non-physiological levels of hepcidin protein, including prohepcidin and fragments thereof, comprising obtaining a tissue or fluid sample from a subject; contacting the sample with an antibody or fragment thereof that specifically binds to a polypeptide corresponding to the amino acid sequence between and including amino acids 60 and 84, or, in another embodiment, amino acids 74 and 81, as aligned with the human pre-pro-hepcidin precursor protein, and quantifying the pro-hepcidin and/or mature hepcidin level using an assay based on binding of the antibody and the polypeptide; wherein the non-physiological level of prohepcidin/mature hepcidin is indicative of the disease condition. The present invention also concerns diagnostic methods and kits for applications in genetic technological approaches, such as for overexpressing or downregulating hepcidin.

ACCESSION NUMBER: 2007:217656 USPATFULL

TITLE: Novel essential fungal polynucleotides, polypeptides,

and methods of use

Wang, Ying-Kai, Rocky Hill, CT, UNITED STATES INVENTOR(S):

Liu, Mengping, North Haven, CT, UNITED STATES

Dougherty, Brian A., Killingworth, CT, UNITED STATES

Healy, Matthew D., Hamden, CT, UNITED STATES

Davison, Daniel B., Morrisville, PA, UNITED STATES Mazzucco, Charles E., Branford, CT, UNITED STATES Krystek, Stanley R., Ringoes, NJ, UNITED STATES Bassolino, Donna A., Hamilton, NJ, UNITED STATES

Maurice, Trina C., Bristol, CT, UNITED STATES

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company (U.S. corporation)

NUMBER KIND DATE _____ US 2007190613 A1 20070816 US 2007-725755 A1 20070320 PATENT INFORMATION: APPLICATION INFO.: (11)

RELATED APPLN. INFO.: Division of Ser. No. US 2003-424324, filed on 25 Apr

2003, PENDING

NUMBER DATE _____

US 2002-376022P 20020426 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT

DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US

NUMBER OF CLAIMS: 13 1-30 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 67 Drawing Page(s)

LINE COUNT: 26196

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides essential fungal polynucleotides and their encoded polypeptides, homologues thereof and their uses.

Additionally, the invention provides methods for the identification of essential polynucleotides and fungal strains which may be used for drug

screening.

ANSWER 6 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:197538 USPATFULL

TITLE: Novel essential fungal polynucleotides, polypeptides,

and methods of use

INVENTOR(S): Wang, Ying-Kai, Rocky Hill, CT, UNITED STATES

Liu, Mengping, North Haven, CT, UNITED STATES

Dougherty, Brian A., Killingworth, CT, UNITED STATES

Healy, Matthew D., Hamden, CT, UNITED STATES

Davison, Daniel B., Morrisville, PA, UNITED STATES Mazzucco, Charles E., Branford, CT, UNITED STATES Krystek, Stanley R., Ringoes, NJ, UNITED STATES Bassolino, Donna A., Hamilton, NJ, UNITED STATES

Maurice, Trina C., Bristol, CT, UNITED STATES

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company (U.S. corporation)

NUMBER KIND DATE

US 2007172881 A1 20070726 US 2007-726434 A1 20070322 (11) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Division of Ser. No. US 2003-424324, filed on 25 Apr

2003, PENDING

NUMBER DATE

PRIORITY INFORMATION: US 2002-376022P 20020426 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT

DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US

NUMBER OF CLAIMS: 14EXEMPLARY CLAIM: 1 - 30

NUMBER OF DRAWINGS: 67 Drawing Page(s)

LINE COUNT: 26191

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides essential fungal polynucleotides and their encoded polypeptides, homologues thereof and their uses.

Additionally, the invention provides methods for the identification of

essential polynucleotides and fungal strains which may be used for drug

screening.

ANSWER 7 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:75497 USPATFULL

26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, TITLE:

32235, 23565, 13305, 14911, 86216, 25206, and 8843

molecules and uses therefor

INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES

> MacBeth, Kyle J., Boston, MA, UNITED STATES Curtis, Rory A.J., Ashland, MA, UNITED STATES Rudolph-Owen, Laura A., Medford, MA, UNITED STATES Weich, Nadine S., Brookline, MA, UNITED STATES Olandt, Peter J., Buffalo, NY, UNITED STATES

Tsai, Fong-Ying, Newton, MA, UNITED STATES

Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED

STATES

Carroll, Joseph M., Cambridge, MA, UNITED STATES

Millennium Pharmaceuticals, Inc. (U.S. corporation) PATENT ASSIGNEE(S):

> NUMBER KIND DATE _____

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: US 2007065848 A1 20070322 US 2006-493347 A1 20060726 (11)

Continuation of Ser. No. US 2003-410764, filed on 10 Apr 2003, ABANDONED Continuation-in-part of Ser. No. US

2001-924358, filed on 6 Aug 2001, ABANDONED Continuation-in-part of Ser. No. US 2003-350553, filed on 24 Jan 2003, ABANDONED Continuation-in-part of Ser. No. US 2001-966614, filed on 27 Sep 2001, ABANDONED Continuation-in-part of Ser. No. US 2002-281094, filed on 25 Oct 2002, ABANDONED Continuation-in-part of Ser. No. US 2002-76535, filed on 15 Feb 2002, ABANDONED Continuation-in-part of Ser. No. US 2001-860352, filed on 17 May 2001, ABANDONED Continuation-in-part of Ser. No. US 2000-593927, filed on 15 Jun 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-226410, filed on 23 Aug 2002, ABANDONED Continuation-in-part of Ser. No. US 2001-997816, filed on 29 Nov 2001, ABANDONED Continuation-in-part of Ser. No. US 2000-686673, filed

on 11 Oct 2000, ABANDONED

		NUMBER		DATE	
PRIORITY	INFORMATION:	US	2000-229300P	20000901	(60)
		US	2002-351572P	20020124	(60)
		US	2000-238054P	20001005	(60)
		US	2001-347815P	20011029	(60)

US 2001-269440P 20010216 (60) US 2000-205301P 20000519 (60) US 2000-199391P 20000425 (60) US 2001-314884P 20010824 (60) US 2000-250186P 20001130 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MILLENNIUM PHARMACEUTICALS, INC., 40 Landsdowne Street,

CAMBRIDGE, MA, 02139, US

NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 17218

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 and 8843 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 and 8843 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 or 8843 gene has been introduced or disrupted. The invention still further provides isolated 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 or 8843 proteins, fusion proteins, antigenic peptides and anti-26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 or 8843 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

L2 ANSWER 8 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:55341 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES
Haseltine, William A., Washington, DC, UNITED STATES
Moore, Paul A., North Bethesda, MD, UNITED STATES

Bock, Jason B., North Potomac, MD, UNITED STATES
Bell, Adam, Germantown, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2005-US4041, filed

on 9 Feb 2005, PENDING

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP, 901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US

NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 14 Drawing Page(s)

LINE COUNT: 17888

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

L2 ANSWER 9 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:43684 USPATFULL

TITLE: Computer systems and methods for inferring casuality

from cellular constituent abundance data

INVENTOR(S): Schadt, Eric E., Kirkland, WA, UNITED STATES

Lamb, John, Shoreline, WA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2007038386	A1	20070215	
APPLICATION INFO.:	US 2004-567282	A1	20040604	(10)
	WO 2004-US17754		20040604	
			20060822	PCT 371 date

			NUMBER	DATE	
PRIORITY	INFORMATION:	US	2003-492682P	20030805	(60)
		US	2003-497470P	20030821	(60)
		US	2004-575499P	20040528	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: JONES DAY, 222 EAST 41ST ST, NEW YORK, NY, 10017, US

NUMBER OF CLAIMS: 104 EXEMPLARY CLAIM: 1-88

NUMBER OF DRAWINGS: 60 Drawing Page(s)

LINE COUNT: 12602

AΒ Methods, computer program products, and systems are provided for associating a cellular constituent with a trait T exhibited by a species. A cellular constituent i that has at least one abundance quantitative trait locus (eQTL) coincident with a respective clinical quantitative trait locus (cQTL) for the trait of interest T is identified. For each eQTL, a determination is made as to whether (i) the genetic variation of the eQTL and (ii) the variation of the trait of interest T across the plurality of organisms are correlated conditional on an abundance pattern of the cellular constituent i across the plurality of organisms. When the genetic variation of (i) one of the eQTL and (ii) the variation of the trait of interest T across the plurality of organisms are uncorrelated conditional on the abundance pattern of the cellular constituent i, the cellular constituent i is considered causal for, and is therefore associated with, the trait of interest T.

L2 ANSWER 10 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:31031 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

Ruben, Steven M., Brookeville, MD, UNITED STATES

NUMBER KIND DATE ______

PATENT INFORMATION: US 2007027306 A1 20070201 APPLICATION INFO.: US 2006-500508 A1 20060808 (11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2005-US4041, filed

on 9 Feb 2005, PENDING

NUMBER DATE _____

PRIORITY INFORMATION: US 2004-542274P 20040209 (60)

US 2004-549901P 20040305 (60) US 2004-556906P 20040329 (60) US 2004-636603P 20041217 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,

901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US

NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 14 Drawing Page(s) LINE COUNT: 17715

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

ANSWER 11 OF 38 USPATFULL on STN L2

ACCESSION NUMBER: 2007:24550 USPATFULL

Humanized antibody amd process for preparing same TITLE:

INVENTOR(S): Hong, Hyo Jeong, 117-201 CROVA APT., DUNSAN-1-DONG, SEO

GU, DAEJEON, KOREA, REPUBLIC OF 302-772

NUMBER KIND DATE PATENT INFORMATION: US 2007021595 A1 20070125 APPLICATION INFO.: US 2003-508759 A1 20030322 A1 20030322 (10) WO 2003-KR564 20030322

20040922 PCT 371 date

NUMBER DATE

KR 2002-15708 20020322 PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: ANDERSON, KILL & OLICK, P.C., 1251 AVENUE OF THE

AMERICAS, NEW YORK,, NY, 10020-1182, US

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 10 Drawing Page(s)

LINE COUNT: 1439

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A humanized antibody is produced by process comprising the steps of: (a)

selecting a specificity determining residue (SDR) of the complementarity determining region (CDR) of murine monoclonal

antibody heavy chain and light chain variable regions; and (b) grafting said SDR to at least one of the corresponding amino acid sequences in human antibody variable regions.

ANSWER 12 OF 38 USPATFULL on STN L2

2007:18189 USPATFULL ACCESSION NUMBER:

TITLE: Novel essential fungal polynucleotides, polypeptides,

and methods of use

Wang, Ying-Kai, Rocky Hill, CT, UNITED STATES INVENTOR(S):

Liu, Mengping, North Haven, CT, UNITED STATES

Dougherty, Brian A., Killingworth, CT, UNITED STATES

Healy, Matthew D., Hamden, CT, UNITED STATES Davison, Daniel B., Yardley, PA, UNITED STATES Mazzucco, Charles E., Branford, CT, UNITED STATES Krystek, Stanley R., Ringoes, NJ, UNITED STATES Bassolino, Donna A., Hamilton, NJ, UNITED STATES

NUMBER KIND DATE _____ US 2007015906 A1 20070118 US 2003-424324 A1 20030425 (10)

APPLICATION INFO.:

DATE NUMBER _____

US 2002-376022P 20020426 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US 30 LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

PATENT INFORMATION:

NUMBER OF DRAWINGS: 67 Drawing Page(s)

LINE COUNT: 15627

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides essential fungal polynucleotides and their encoded polypeptides, homologues thereof and their uses. Additionally, the invention provides methods for the identification of essential polynucleotides and fungal strains which may be used for drug

screening.

INVENTOR(S):

ANSWER 13 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2007:17486 USPATFULL

TITLE: Novel 18636, 2466, 43238, 1983, 52881, 2398, 45449,

50289, 52872 and 26908 molecules and uses therefor Glucksmann, Maria A., Lexington, MA, UNITED STATES

Silos-Santiago, Inmaculada, Del Mar, CA, UNITED STATES

Carroll, Joseph M., Cambridge, MA, UNITED STATES

Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES

Millennium Pharmaceuticals, Inc. (U.S. corporation) PATENT ASSIGNEE(S):

NUMBER KIND DATE _____ ___ PATENT INFORMATION:

US 2007015201 A1 20070118 US 2006-522789 A1 20060918 (11) APPLICATION INFO.:

Continuation of Ser. No. US 2003-407079, filed on 3 Apr RELATED APPLN. INFO.:

2003, PENDING Continuation-in-part of Ser. No. US

2002-226102, filed on 22 Aug 2002, ABANDONED

Continuation-in-part of Ser. No. US 2002-225094, filed on 21 Aug 2002, ABANDONED Continuation-in-part of Ser. No. US 2002-272417, filed on 15 Oct 2002, ABANDONED Continuation of Ser. No. US 2000-715790, filed on 17 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-282837, filed on 29 Oct 2002, ABANDONED Continuation of Ser. No. US 2001-796338, filed on 28 Feb 2001, ABANDONED Continuation-in-part of Ser. No. US 2001-863200, filed on 22 May 2001, ABANDONED

			NUMBER	DATE	
PRIORITY	INFORMATION:	US	2001-314041P	20010822	(60)
		US	2001-314185P	20010822	(60)
		US	2000-191845P	20000324	(60)
		US	2000-186059P	20000229	(60)
		US	2000-206019P	20000522	(60)
DOCHMENT	TVDD.	TTL 3	! T ! #		

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MILLENNIUM PHARMACEUTICALS, INC., 40 Landsdowne Street,

CAMBRIDGE, MA, 02139, US

NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 12186

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 gene has been introduced or disrupted. The invention still further provides isolated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 proteins, fusion proteins, antigenic peptides and anti-18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

L2 ANSWER 14 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2006:334023 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)

	NUMBER		KIND	DATE	
PATENT INFORMATION:	US	2006286635	A1	20061221	
	US	7238660	B2	20070703	
APPLICATION INFO.:	US	2006-393893	A1	20060331	(11)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2004-775180, filed on 11 Feb 2004, PENDING Continuation of Ser. No. WO 2002-US40892, filed on 23 Dec 2002, PENDING

		NUMBER		DATE	
PRIORITY	INFORMATION:	US	2001-341811P	20011221	(60)
		US	2002-360000P	20020228	(60)
		US	2002-378950P	20020510	(60)
		US	2002-398008P	20020724	(60)
		US	2002-411355P	20020918	(60)
		US	2002-414984P	20021002	(60)
		US	2002-417611P	20021011	(60)
		US	2002-420246P	20021023	(60)
		US	2002-423623P	20021105	(60)

US 2002-350358P 20020124 (60) US 2002-359370P 20020226 (60) US 2002-367500P 20020327 (60) US 2002-402131P 20020809 (60) US 2002-402708P 20020813 (60) US 2002-370227P 20020408 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,

901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US

NUMBER OF CLAIMS: 32 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 13 Drawing Page(s)

LINE COUNT: 20492

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating or preventing diseases, disorders or conditions related to diabetes mellitus using albumin fusion proteins of the invention.

L2 ANSWER 15 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2006:322351 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES

Haseltine, William A., Washington, DC, UNITED STATES Ruben, Steven M., Brookeville, MD, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2004-775204, filed on 11

Feb 2004, PENDING Continuation of Ser. No. WO 2002-US40891, filed on 23 Dec 2002, PENDING

			NUMBER	DATE	
PRIORITY	INFORMATION:	US	2001-341811P	20011221	(60)
		US	2002-350358P	20020124	(60)
		US	2002-351360P	20020128	(60)
		US	2002-359370P	20020226	(60)
		US	2002-360000P	20020228	(60)
		US	2002-367500P	20020327	(60)
		US	2002-370227P	20020408	(60)
		US	2002-378950P	20020510	(60)
		US	2002-382617P	20020524	(60)
		US	2002-383123P	20020528	(60)
		US	2002-385708P	20020605	(60)
		US	2002-394625P	20020710	(60)
		US	2002-398008P	20020724	(60)
		US	2002-402131P	20020809	(60)
		US	2002-402708P	20020813	(60)
		US	2002-411355P	20020918	(60)

US 2002-411426P 20020918 (60) US 2002-414984P 20021002 (60) US 2002-417611P 20021011 (60) US 2002-420246P 20021023 (60) US 2002-423623P 20021105 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,

901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

INVENTOR(S):

PATENT INFORMATION: APPLICATION INFO.:

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 24781

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

L2 ANSWER 16 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2006:282923 USPATFULL

TITLE: Computer systems and methods for inferring causality

from cellullar constituent abundance data
Schadt, Eric E., Kirkland, WA, UNITED STATES

Lamb, John, Shoreline, WA, UNITED STATES

PATENT ASSIGNEE(S): Rosetta Inpharmatics LLC (U.S. corporation)

NUMBER KIND DATE
----US 2006241869 A1 20061026
US 2006-361871 A1 20060223 (11)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2004-567282,

PENDING A 371 of International Ser. No. WO

2004-US17754, filed on 4 Jun 2004

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: JONES DAY, 222 EAST 41ST ST, NEW YORK, NY, 10017, US

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 89 Drawing Page(s)

LINE COUNT: 11763

AB Methods for determining whether a molecule affects a disorder are provided. A cell from an organism is contacted with the molecule, or the molecule is expressed within the cell. A determination is made as to whether the RNA or protein expression in the cell of at least one open reading frame is changed relative to the expression of the reading frame in the absence of the molecule. Each such open reading frame is regulated by a promoter native to SEQ ID NOS: 5-9, 11-12, 14, 16, 18, 20-21, 23, 25, 27, 29, 31, 33 or homologs of the foregoing. A determination is made as to whether the molecule affects the disorder

when the RNA or protein expression of the at least one reading frame is changed. Alternatively, a determination is made that the molecule does not affect the disorder when the RNA or protein expression of the at least one reading frame is unchanged.

L2 ANSWER 17 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2006:228368 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Haseltine, William A., Washington, DC, UNITED STATES

Ballance, David J., Berwyn, PA, UNITED STATES

Turner, Andrew J., King of Prussia, PA, UNITED STATES Ruben, Steven M., Brookeville, MD, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

Delta Biotechnology Limited, Nottingham, UNITED KINGDOM

(non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2006194735 A1 20060831 APPLICATION INFO.: US 2006-429276 A1 20060508 (11)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2004-775204, filed on 11

Feb 2004, PENDING Continuation of Ser. No. WO 2002-US40891, filed on 23 Dec 2002, PENDING

> US 2002-385708P 20020605 (60) US 2002-394625P 20020710 (60) US 2002-398008P 20020724 (60) US 2002-402131P 20020809 (60)

> US 2002-402708P 20020813 (60) US 2002-411355P 20020918 (60) US 2002-411426P 20020918 (60)

> US 2002-414984P 20021002 (60) US 2002-417611P 20021011 (60) US 2002-420246P 20021023 (60)

US 2002-423623P 20021105 (60) Utility

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,

901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 24486

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and

methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

ANSWER 18 OF 38 USPATFULL on STN

2006:202057 USPATFULL ACCESSION NUMBER:

Minimally immunogenic variants of sdr-grafted TITLE:

humanized antibody cc49 and their use

INVENTOR(S): Kashmiri, Syed V. S., Gaithersburg, MD, UNITED STATES

Schlom, Jffrey, Potomac, MD, UNITED STATES

Padlan, Eduardo A., Kensington, MD, UNITED STATES

NUMBER KIND DATE _____ PATENT INFORMATION: APPLICATION INFO.: US 2006171941 A1 20060803 US 2004-570220 A1 20040827 (10)WO 2004-US28004 20040827 20060228 PCT 371 date

> NUMBER DATE _____

US 2003-498903P 20030829 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

#1600, PORTLAND, OR, 97204-2988, US
43 LEGAL REPRESENTATIVE: KLARQUIST SPARKMAN, LLP, 121 S.W. SALMON STREET, SUITE

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 9 Drawing Page(s)

3113 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Humanized anti-TAG-72 CC49 monoclonal antibodies are disclosed herein. The antibodies include a light chain Complementarity Determining Region (L-CDR)1, a L-CDR2, and a L-CDR3; and a heavy chain Complementarity Determining Region (H-CDR)1, a H-CDR2, and a H-CDR3 from humanized antibody HuCC49V10. The L-CDR1, L-CDR2, L-CDR3 are within a HuCC49V10 light chain framework region that includes the corresponding amino acid from LEN at position 5, 19, 21, and 106 in the light chain. The H-CDR1, H-CDR2, and H-CDR3 are within a heavy chain HuCC49V10 framework comprising a human 21/28' CL residue at positions 20, 38, 48, 66, 67, 69, and 80 in the heavy chain. These humanized CC49 antibodies retain binding affinity for TAG-72 and have reduced immunogenicity, as compared to a parental HuCC49V10 antibody. Methods are disclosed herein for using these antibodies in the treatment or diagnosis of a tumor, such as a carcinoma, expressing TAG-72.

ANSWER 19 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2006:194925 USPATFULL

Humanized anti-tag 72 cc49 for diagnosis and therapy of TITLE:

human tumors

Kashmiri, Syed V.S., Gaithersburg, MD, UNITED STATES INVENTOR(S):

Schlom, Jeffrey, Potomac, MD, UNITED STATES

Padlan, Eduardo A., Kensington, MD, UNITED STATES

NUMBER KIND DATE PATENT INFORMATION: US 2006165680 A1 20060727 APPLICATION INFO.: US 2003-519580 A1 20030626 (10) WO 2003-US20367 20030626

NUMBER DATE _____ PRIORITY INFORMATION: US 2002-60393077 20020628

DOCUMENT TYPE: Utilitv FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KLARQUIST SPARKMAN, LLP, 121 S.W. SALMON STREET, SUITE

#1600, PORTLAND, OR, 97204-2988, US 41

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 9 Drawing Page(s) LINE COUNT: 2097

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present disclosure provides humanized CC49 monoclonal antibodies that bind TAG-72 with high binding affinity and that are minimally immunogenic. In one embodiment, a humanized CC49 antibody includes a non-conservative amino acid substitution in a light chain complementarity determining region 3 of the CC49 antibody. In a further embodiment, the humanized CC49 antibody includes a non-conservative substitution of a first residue in a light chain complementarity determining region 3 and a substitution of a second residue in a complementarity determining region of the humanized CC49 antibody. In several of the embodiments, methods are disclosed for the use of a humanized CC49 antibody in the detection or treatment of a tumor in a subject. Also disclosed is a kit including the humanized CC49 antibody described herein.

ANSWER 20 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2006:104804 USPATFULL TITLE: Novel 13237, 18480, 2245, 16228, 7677, 26320, 46619,

33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745,

23155, 21657, 42755, 32229, 22325, 46863 and 32252

molecules and uses therefor

INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES

Williamson, Mark J., Saugus, MA, UNITED STATES

Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED

STATES

MacBeth, Kyle J., Boston, MA, UNITED STATES

Hunter, John Joseph, Somerville, MA, UNITED STATES Rudolph-Owen, Laura A., Medford, MA, UNITED STATES Bandaru, Rajasekhar, Watertown, MA, UNITED STATES

Tsai, Fong-Ying, Newton, MA, UNITED STATES

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc. (U.S. corporation)

NUMBER KIND DATE ______ US 2006088907 A1 20060427 US 2003-370959 A1 20030220 (10) PATENT INFORMATION: APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2001-910150, filed RELATED APPLN. INFO.:

on 18 Jul 2001, ABANDONED

NUMBER DATE _____

PRIORITY INFORMATION: US 2000-219028P 20000718 (60) DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Paul J. Paglierani, Millennium Pharmaceuticals, Inc.,

75 Sidney Street, Cambridge, MA, 02139, US

18 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 15824 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 and 32252 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 and 32252 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 or 32252 gene has been introduced or disrupted. The invention still further provides isolated 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 or 32252 proteins, fusion proteins, antigenic peptides and anti-13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 or 32252 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

L2 ANSWER 21 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2006:15872 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Haseltine, William A., Washington, DC, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2006014254 A1 20060119 APPLICATION INFO.: US 2005-175690 A1 20050707 (11)

RELATED APPLN. INFO.: Continuation of Ser. No. WO 2004-US1369, filed on 20

Jan 2004, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT.,

14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850, US

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Page(s)

LINE COUNT: 17653

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising

albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

L2 ANSWER 22 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2005:247698 USPATFULL

TITLE: Novel human genes and methods of use thereof INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES Curtis, Rory A.J., Ashland, MA, UNITED STATES

Glucksmann, Maria Alexandra, Lexington, MA, UNITED

STATES

Bandaru, Rajasekhar, Watertown, MA, UNITED STATES Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED

STATES

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., Cambridge, MA, UNITED

STATES (U.S. corporation)

Continuation of Ser. No. US 2002-176306, filed on 20 Jun 2002, ABANDONED Continuation-in-part of Ser. No. US

2001-1137, filed on 14 Nov 2001, ABANDONED

Continuation-in-part of Ser. No. WO 2001-US45291, filed on 14 Nov 2001, PENDING Continuation-in-part of Ser. No. US 2001-23617, filed on 18 Dec 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US49416, filed on 18 Dec 2001, PENDING Continuation-in-part of Ser. No. US 2001-83248, filed on 22 Oct 2001, ABANDONED

		NUMBER	DATE	
PRIORITY	INFORMATION:	WO 2001-US46717	20011022	
		US 2000-248362P	20001114	(60)
		US 2000-248331P	20001114	(60)
		US 2000-248365P	20001114	(60)
		US 2000-250077P	20001130	(60)
		US 2000-250327P	20001130	(60)
		US 2000-250176P	20001130	(60)
		US 2000-256249P	20001218	(60)
		US 2000-256405P	20001218	(60)
DOCUMENT	TYPE:	Utility		

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MILLENNIUM PHARMACEUTICALS, INC., 40 Landsdowne Street,

CAMBRIDGE, MA, 02139, US

NUMBER OF CLAIMS: 16 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 60 Drawing Page(s)

LINE COUNT: 26559

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 47476, 67210, 49875,46842,33201, 83378,84233,64708, 85041,84234,21617, 55562,23566,33489, and 57779 nucleic acid molecules, which encode novel human genes. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 gene has been introduced or disrupted. The invention still further provides isolated

47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 proteins, fusion proteins, antigenic peptides and anti-47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

L2 ANSWER 23 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2005:214989 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

Ballance, David J., Berwyn, PA, UNITED STATES
Turner, Andrew J., Eagleville, PA, UNITED STATES

RELATED APPLN. INFO.: Continuation of Ser. No. WO 2002-US40891, filed on 23

Dec 2002, PENDING

NUMBER DATE _____ US 2001-341811P 20011221 (60) US 2002-350358P 20020124 (60) PRIORITY INFORMATION: US 2002-351360P 20020128 (60) US 2002-359370P 20020226 (60) US 2002-360000P 20020228 (60) US 2002-367500P 20020327 (60) US 2002-370227P 20020408 (60) US 2002-378950P 20020510 (60) US 2002-382617P 20020524 (60) US 2002-383123P 20020528 (60) US 2002-385708P 20020605 (60) US 2002-394625P 20020710 (60) US 2002-398008P 20020724 (60) US 2002-402131P 20020809 (60) US 2002-402708P 20020813 (60) US 2002-411355P 20020918 (60) US 2002-411426P 20020918 (60) US 2002-414984P 20021002 (60) US 2002-417611P 20021011 (60) US 2002-420246P 20021023 (60) US 2002-423623P 20021105 (60) DOCUMENT TYPE:

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT.,

14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850, US

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 25129

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising

albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disordrs or conditions using albumin fusion proteins of the invention.

L2 ANSWER 24 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2005:63530 USPATFULL TITLE: Albumin fusion proteins

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES Haseltine, William A., Washington, DC, UNITED STATES

RELATED APPLN. INFO.: Continuation of Ser. No. WO 2002-US40892, filed on 23

Dec 2002, PENDING

NUMBER DATE _____ US 2001-341811P 20011221 (60) PRIORITY INFORMATION: US 2002-360000P 20020228 (60) US 2002-378950P 20020510 (60) US 2002-398008P 20020724 (60) 20020918 (60) 20021002 (60) 20021011 (60) US 2002-411355P US 2002-414984P US 2002-417611P US 2002-420246P 20021023 (60) US 2002-423623P 20021105 (60) US 2002-350358P 20020124 (60) US 2002-359370P 20020226 (60) US 2002-367500P 20020327 (60) US 2002-402131P 20020809 (60) US 2002-402708P 20020813 (60) US 2002-370227P 20020408 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT.,

14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 32 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 13 Drawing Page(s)
LINE COUNT: 20949

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention encompasses albumin fusion proteins. Nucleic acid molecules encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host cells. Additionally the present invention encompasses pharmaceutical compositions comprising albumin fusion proteins and methods of treating or preventing diseases, disorders or conditions related to diabetes mellitus using albumin fusion proteins of the invention.

L2 ANSWER 25 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2004:171926 USPATFULL

TITLE: Novel human enzyme family members and uses thereof

INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES

Glucksmann, Maria Alexandria, Lexington, MA, UNITED

STATES

Rudolph-Owen, Laura A., Medford, MA, UNITED STATES

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., Cambridge, MA, 02139 (U.S. corporation)

KIND

PATENT INFORMATION:	US 2004132087	A1	20040708	
APPLICATION INFO.:	US 2004-776871	A1	20040211	(10)
RELATED APPLN. INFO.:	Continuation of	Ser. No.	. US 2002-	175696

NUMBER

Continuation of Ser. No. US 2002-175696, filed on 20 Jun 2002, PENDING Continuation-in-part of Ser. No. US 2002-67668, filed on 4 Feb 2002, ABANDONED Continuation-in-part of Ser. No. US 2001-823901, filed on 30 Mar 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US10720, filed on 2 Apr 2001, PENDING Continuation-in-part of Ser. No. US 2001-862658, filed on 21 May 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US16380, filed on 21 May 2001, PENDING Continuation-in-part of Ser. No. US 2001-882837, filed on 15 Jun 2001, ABANDONED Continuation-in-part of Ser. No. WO 2001-US19319, filed on 15 Jun 2001, PENDING

DATE

	NUMBER	DATE			
PRIORITY INFORMATION:	US 2001-266140P	20010202 ((60)		
	US 2000-193920P	20000331 ((60)		
	US 2000-205675P	20000519 ((60)		
	US 2000-211727P	20000615 ((60)		
DOCUMENT TYPE:	Utility				
FILE SEGMENT:	APPLICATION				
LEGAL REPRESENTATIVE:	MILLENNIUM PHARMA	CEUTICALS, I	INC., 40	Landsdowne	Street,
	CAMBRIDGE, MA, 02	139			

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 27 Drawing Page(s)

LINE COUNT: 21375

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated nucleic acids molecules, designated 33312, 33303, 32579, 21509, 33770, 46638, and 50090 nucleic acid molecules, which encode novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 33312, 33303, 32579, 21509, 33770, 46638, or 50090 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 33312, 33303, 32579, 21509, 33770, 46638, or 50090 gene has been introduced or disrupted. The invention still further provides isolated 33312, 33303, 32579, 21509, 33770, 46638, or 50090 proteins, fusion proteins, antigenic peptides and anti-33312, 33303, 32579, 21509, 33770, 46638, or 50090 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

L2 ANSWER 26 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2004:63776 USPATFULL
TITLE: 31 human secreted proteins
INVENTOR(S): Ruben, Steven M., Brookevi

Ruben, Steven M., Brookeville, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Duan, Roxanne D., Bethesda, MD, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Young, Paul E., Gaithersburg, MD, UNITED STATES

Ni, Jian, Germantown, MD, UNITED STATES

Komatsoulis, George, Silver Spring, MD, UNITED STATES

Endress, Gregory A., Florence, MA, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES

Human Genome Sciences, Inc., Rockville, MD (U.S.

corporation)

______ US 2004048294 A1 20040311 US 2003-607565 A1 20030627 (10) PATENT INFORMATION:

APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-820893, filed on 30

NUMBER KIND DATE

Mar 2001, ABANDONED Continuation of Ser. No. US 2000-531119, filed on 20 Mar 2000, ABANDONED

Continuation-in-part of Ser. No. WO 1999-US22012, filed

on 22 Sep 1999, PENDING

NUMBER DATE _____

US 1998-101546P 19980923 (60) US 1998-102895P 19981002 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 24 EXEMPLARY CLAIM: 17193 LINE COUNT:

PATENT ASSIGNEE(S):

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or

conditions related to these novel human secreted proteins.

ANSWER 27 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2004:44517 USPATFULL

Novel 13237, 18480, 2245, 16228, 7677, 26320, 46619, TITLE:

33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745,

23155, 21657, 42755, 32229, 22325, 46863 and 32252

molecules and uses therefor

INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES

Williamson, Mark J., Saugus, MA, UNITED STATES

Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED

STATES

MacBeth, Kyle J., Boston, MA, UNITED STATES

Hunter, John Joseph, Somerville, MA, UNITED STATES Rudolph-Owen, Laura A., Medford, MA, UNITED STATES Bandaru, Rajasekhar, Watertown, MA, UNITED STATES

Tsai, Fong-Ying, Newton, MA, UNITED STATES

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc. (U.S. corporation)

> DATE NUMBER KIND ______

US 2004033509 A1 20040219 US 2003-377097 A1 20030228 (10) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-910150, filed on 18 Jul 2001, ABANDONED Continuation-in-part of Ser.

No. US 2002-251507, filed on 20 Sep 2002, PENDING

NUMBER DATE _____ PRIORITY INFORMATION: US 2000-219028P 20000718 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MILLENNIUM PHARMACEUTICALS, INC., 75 Sidney Street,

Cambridge, MA, 02139

NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
LINE COUNT: 15960

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 and 32252 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 and 32252 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 or 32252 gene has been introduced or disrupted. The invention still further provides isolated 13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 or 32252 proteins, fusion proteins, antigenic peptides and anti-13237, 18480, 2245, 16228, 7677, 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228, 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 or 32252 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

L2 ANSWER 28 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2004:7430 USPATFULL

TITLE: Novel 26199, 33530, 33949, 47148, 50226, 58764, 62113,

32144, 32235, 23565, 13305, 14911, 86216, 25206 and

8843 molecules and uses therefor

INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES

MacBeth, Kyle J., Boston, MA, UNITED STATES
Curtis, Rory A. J., Ashland, MA, UNITED STATES
Rudolph-Owen, Laura A., Medford, MA, UNITED STATES
Weich, Nadine S., Brookline, MA, UNITED STATES
Olandt, Peter J., Buffalo, NY, UNITED STATES
Tsai, Fong-Ying, Newton, MA, UNITED STATES

Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED

STATES

Carroll, Joseph M., Cambridge, MA, UNITED STATES

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc. (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: US 2004005664 A1 20040108 US 2003-410764 A1 20030410 (10)

Continuation—in—part of Ser. No. US 2001—924358, filed on 6 Aug 2001, PENDING Continuation—in—part of Ser. No. US 2003—350553, filed on 24 Jan 2003, PENDING Continuation—in—part of Ser. No. US 2001—966614, filed on 27 Sep 2001, PENDING Continuation—in—part of Ser. No. US 2002—281094, filed on 25 Oct 2002, PENDING Continuation—in—part of Ser. No. US 2002—76535, filed on 15 Feb 2002, PENDING Continuation—in—part of Ser. No. US 2001—860352, filed on 17 May 2001, ABANDONED Continuation—in—part of Ser. No. US 2000—593927, filed on 15 Jun 2000, ABANDONED Continuation—in—part of Ser.

No. US 2002-226410, filed on 23 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2001-997816, filed on 29 Nov 2001, ABANDONED Continuation-in-part of Ser. No. US 2000-686673, filed on 11 Oct 2000, PENDING

DATE

			NUMBER	DAIL	
PRIORITY	INFORMATION:	US	2000-229300P	20000901	(60)
		US	2002-351572P	20020124	(60)
		US	2000-238054P	20001005	(60)
		US	2001-347815P	20011029	(60)
		US	2001-269440P	20010216	(60)
		US	2000-205301P	20000519	(60)
		US	2000-199391P	20000425	(60)
		US	2001-314884P	20010824	(60)
		US	2000-250186P	20001130	(60)
DOCUMENT.	mudd	T.T.			

MIIMBED

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Jean M. Silveri, Millennium Pharmaceuticals, Inc., 75

Sidney Street, Cambridge, MA, 02139

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 17049 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 and 8843 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 and 8843 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 or 8843 gene has been introduced or disrupted. The invention still further provides isolated 26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 or 8843 proteins, fusion proteins, antigenic peptides and anti-26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206 or 8843 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

ANSWER 29 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2003:312209 USPATFULL

Novel 18607, 15603, 69318, 12303, 48000, 52920, 5433, TITLE: 38554, 57301, 58324, 55063, 52991, 59914, 59921 and

33751 molecules and uses therefor

INVENTOR(S): Glucksmann, Maria A., Lexington, MA, UNITED STATES

Curtis, Rory A.J., Ashland, MA, UNITED STATES

Lora, Jose M., Arlington, MA, UNITED STATES

Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES Silos-Santiago, Inmaculada, Del Mar, CA, UNITED STATES

Millennium Pharmaceuticals, Inc. (U.S. corporation) PATENT ASSIGNEE(S):

			NUMBER		DATE	
PATENT	INFORMATION:	US	2003219806	A1	20031127	
ADDI TOT	THE TARRE	TT.O	0000 001000	70 17	0000010	

APPLICATION INFO.: RELATED APPLN. INFO.: US 2003-391399 A1 20030318 (10)

Continuation-in-part of Ser. No. US 2001-789481, filed on 20 Feb 2001, PENDING Continuation-in-part of Ser. No. US 2000-634669, filed on 8 Aug 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-583373, filed on 31 May 2000, ABANDONED Continuation-in-part of Ser.

No. US 2000-510706, filed on 22 Feb 2000, ABANDONED Continuation-in-part of Ser. No. US 2002-309804, filed on 4 Dec 2002, PENDING Continuation-in-part of Ser. No. US 2002-94214, filed on 8 Mar 2002, PENDING Continuation-in-part of Ser. No. US 2001-828035, filed on 6 Apr 2001, ABANDONED Continuation-in-part of Ser. No. US 2001-891762, filed on 26 Jun 2001, PENDING Continuation-in-part of Ser. No. US 2002-245121, filed on 17 Sep 2002, PENDING Continuation-in-part of Ser. No. US 2002-95139, filed on 11 Mar 2002, PENDING Continuation-in-part of Ser. No. US 2001-957683, filed on 19 Sep 2001, ABANDONED Continuation-in-part of Ser. No. US 2001-942447, filed on 29 Aug 2001, ABANDONED Continuation-in-part of Ser. No. US 2002-62937, filed on 31 Jan 2002, PENDING Continuation-in-part of Ser. No. US 2002-255532, filed on 26 Sep 2002, PENDING

			NUMBER	DATE	
PRIORITY	INFORMATION:		2001-336936P 2001-275078P	20011204	(60) (60)
			2001 2750781 2000-195734P	20010312	(60)
		US	2000-214176P	20000626	(60)
		US	2001-322983P	20010917	(60)
		US	2001-275172P	20010312	(60)
		US	2000-233537P	20000919	(60)
		US	2000-229036P	20000831	(60)
		US	2001-267076P	20010201	(60)
		US	2001-325854P	20010927	(60)
DOCUMENT	TYPE:	Ut:	ility		
DITE OF OR	ATTA TOT	70 170 1	OT TONETON		

FILE SEGMENT: OTILITY
APPLICATION

LEGAL REPRESENTATIVE: Jean M. Silveri, Millennium Pharmaceuticals, Inc., 75

Sidney Street, Cambridge, MA, 02139

NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 19893

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 18607, 15603, 69318, 12303, 48000, 52920, 5433, 38554, 57301, 58324, 55063, 52991, 59914, 59921 and 33751 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 18607, 15603, 69318, 12303, 48000, 52920, 5433, 38554, 57301, 58324, 55063, 52991, 59914, 59921 and 33751 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 18607, 15603, 69318, 12303, 48000, 52920, 5433, 38554, 57301, 58324, 55063, 52991, 59914, 59921 or 33751 gene has been introduced or disrupted. The invention still further provides isolated 18607, 15603, 69318, 12303, 48000, 52920, 5433, 38554, 57301, 58324, 55063, 52991, 59914, 59921 or 33751 proteins, fusion proteins, antigenic peptides and anti-18607, 15603, 69318, 12303, 48000, 52920, 5433, 38554, 57301, 58324, 55063, 52991, 59914, 59921 or 33751 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

L2 ANSWER 30 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2003:306426 USPATFULL

TITLE: Novel 18636, 2466, 43238, 1983, 52881, 2398, 45449,

50289, 52872 and 26908 molecules and uses therefor Glucksmann, Maria A., Lexington, MA, UNITED STATES Silos-Santiago, Inmaculada, Del Mar, CA, UNITED STATES Carroll, Joseph M., Cambridge, MA, UNITED STATES

Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES

INVENTOR(S):

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc. (U.S. corporation)

APPLICATION INFO.: US 2003-407079 A1 20030403 (10)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-226102, filed

on 22 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-225094, filed on 21 Aug 2002, PENDING Continuation-in-part of Ser. No. US 2002-272417, filed on 15 Oct 2002, PENDING Continuation of Ser. No. US 2000-715790, filed on 17 Nov 2000, ABANDONED

Continuation-in-part of Ser. No. US 2002-282837, filed on 29 Oct 2002, PENDING Continuation of Ser. No. US 2001-796338, filed on 28 Feb 2001, ABANDONED

Continuation-in-part of Ser. No. US 2001-863200, filed

on 22 May 2001, ABANDONED

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Jean M. Silveri, Millennium Pharmaceuticals, Inc., 75

Sidney Street, Cambridge, MA, 02139

NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 12157

PATENT INFORMATION:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 and 26908 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 gene has been introduced or disrupted. The invention still further provides isolated 18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 proteins, fusion proteins, antigenic peptides and anti-18636, 2466, 43238, 1983, 52881, 2398, 45449, 50289, 52872 or 26908 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

L2 ANSWER 31 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2003:265258 USPATFULL

TITLE: 15603, a human ion channel family member and uses

therefor

INVENTOR(S): Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc. (U.S. corporation)

NUMBER DATE

PRIORITY INFORMATION: US 2001-336936P 20011204 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Steven A. Bossone, Millennium Pharmaceuticals, Inc., 75

Sidney Street, Cambridge, MA, 02139

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 4914

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 15603 nucleic acid molecules, which encode novel ion channel family members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 15603 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 15603 gene has been introduced or disrupted. The invention still further provides isolated 15603 proteins, fusion proteins, antigenic peptides and anti-15603 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

ANSWER 32 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2003:251541 USPATFULL

TITLE: 55562 and 21617, novel human proteins and methods of

use thereof

Bandaru, Rajasekhar, Watertown, MA, UNITED STATES INVENTOR(S):

Meyers, Rachel E., Newton, MA, UNITED STATES

NUMBER KIND DATE ______ PATENT INFORMATION: US 2003176330 A1 20030918 APPLICATION INFO.: US 2001-23617 A1 20011218 (10)

NUMBER DATE

_____ US 2000-256249P 20001218 (60) PRIORITY INFORMATION: US 2000-256405P 20001218 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FISH & RICHARDSON PC, 225 FRANKLIN ST, BOSTON, MA,

NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 6105

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 21617 and 55562 nucleic acid molecules, which encode novel dehydrogenase or tetratricopeptide repeat members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 21617 or 55562 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 21617 or 55562 gene has been introduced or disrupted. The invention still further provides isolated 21617 or 55562 proteins, fusion proteins, antigenic peptides and anti-21617 or 55562 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

ANSWER 33 OF 38 USPATFULL on STN L2

ACCESSION NUMBER: 2003:188692 USPATFULL

Novel human genes and methods of use thereof TITLE: Meyers, Rachel E., Newton, MA, UNITED STATES INVENTOR(S):

Curtis, Rory A. J., Framingham, MA, UNITED STATES Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES

Bandaru, Rajasekhar, Watertown, MA, UNITED STATES Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED STATES

NUMBER KIND DATE ______ US 2003130485 A1 20030710 US 2002-176306 A1 20020620 PATENT INFORMATION: 20020620 (10) APPLICATION INFO.:

MILIMED

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-1137, filed on 14 Nov 2001, PENDING Continuation-in-part of Ser. No.

WO 2001-US45291, filed on 14 Nov 2001, PENDING חת עם

			NUMBER	DAIE	
PRIORITY	INFORMATION:	WO	2001-US49416	20011218	
		WO	2001-US46717	20011022	
		US	2000-248362P	20001114	(60)
		US	2000-248331P	20001114	(60)
		US	2000-248365P	20001114	(60)
		US	2000-250077P	20001130	(60)
		US	2000-250327P	20001130	(60)
		US	2000-250176P	20001130	(60)
DOCUMENT.	mupp	T.T.1			

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: LOUIS MYERS, Fish & Richardson P.C., 225 Franklin

Street, Boston, MA, 02110-2804

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 60 Drawing Page(s)

LINE COUNT: 26835

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated AB 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, and 57779 nucleic acid molecules, which encode novel human genes. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 gene has been introduced or disrupted. The invention still further provides isolated 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 proteins, fusion proteins, antigenic peptides and anti-47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

ANSWER 34 OF 38 USPATFULL on STN L2

2003:134569 USPATFULL ACCESSION NUMBER:

Novel human enzyme family members and uses thereof TITLE:

INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES

Glucksmann, Maria Alexandra, Lexington, MA, UNITED

STATES

Rudolph-Owen, Laura A., Jamaica Plain, MA, UNITED

STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2003092658 A1 20030515 APPLICATION INFO.: US 2002-175696 A1 20020620 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-67668, filed

on 4 Feb 2002, PENDING

NUMBER DATE _____

US 2001-266140P 20010202 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Intellectual Property Group, MILLENNIUM

PHARMACEUTICALS, INC., 75 Sidney Street, Cambridge, MA,

02139

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 27 Drawing Page(s)

LINE COUNT: 21384

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 33312, 33303, 32579, 21509, 33770, 46638, and 50090 nucleic acid molecules, which encode novel G protein-coupled receptor family members, human thioredoxin family members, human leucine-rich repeat family members, and human ringfinger family member. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 33312, 33303, 32579, 21509, 33770, 46638, or 50090 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 33312, 33303, 32579, 21509, 33770, 46638, or 50090 gene has been introduced or disrupted. The invention still further provides isolated 33312, 33303, 32579, 21509, 33770, 46638, or 50090 proteins, fusion proteins, antigenic peptides and anti-33312, 33303, 32579, 21509, 33770, 46638, or 50090 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

ANSWER 35 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2003:127069 USPATFULL

TITLE: 18636 receptor, a human G-protein-coupled receptor

(GPCR) family member, and uses therefor

INVENTOR(S): Carroll, Joseph M., Cambridge, MA, UNITED STATES PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc. (U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 2003087281 A1 20030508 APPLICATION INFO.: US 2002-226102 A1 20020822 (10)

NUMBER DATE

US 2001-314041P 20010822 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Steven A. Bossone, MILLENNIUM PHARMACEUTICALS, INC., 75

Sidney Street, Cambridge, MA, 02139

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Page(s)

LINE COUNT: 4612

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 18636 nucleic acid molecules, which encode novel G protein coupled receptor family members. The invention also provides antisense nucleic

acid molecules, recombinant expression vectors containing 18636 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 18636 gene has been introduced or disrupted. The invention still further provides isolated 18636 proteins, fusion proteins, antigenic peptides and anti-18636 antibodies. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

ANSWER 36 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2002:287589 USPATFULL

TITLE: 25206, a novel human short-chain

dehydrogenase/reductase family member and uses thereof

INVENTOR(S): Meyers, Rachel E., Newton, MA, UNITED STATES

MacBeth, Kyle J., Boston, MA, UNITED STATES

NUMBER KIND DATE _____ US 2002160452 A1 20021031 US 2001-997816 A1 20011129 (9) PATENT INFORMATION: APPLICATION INFO.:

> NUMBER DATE _____

US 2000-250186P 20001130 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

Street, Boston, MA, 02110-2804 LEGAL REPRESENTATIVE: P. LOUIS MYERS, Fish & Richardson P.C., 225 Franklin

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 2 Drawing Page(s)

4862 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 25206 nucleic acid molecules, which encode novel short-chain dehydrogenase/reductase members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 25206 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 25206 gene has been introduced or disrupted. The invention still further provides isolated 25206 proteins, fusion proteins, antigenic peptides and anti-25206 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

ANSWER 37 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2002:148564 USPATFULL 31 human secreted proteins TITLE:

Ruben, Steven M., Olney, MD, UNITED STATES INVENTOR(S):

Rosen, Craig A., Laytonsville, MD, UNITED STATES Duan, Roxanne D., Bethesda, MD, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Young, Paul E., Gaithersburg, MD, UNITED STATES

Ni, Jian, Rockville, MD, UNITED STATES

Komatsoulis, George, Silver Spring, MD, UNITED STATES

Endress, Gregory A., Potomac, MD, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES

NUMBER KIND DATE PATENT INFORMATION: US 2002076705 A1 20020620 APPLICATION INFO.: US 2001-820893 A1 20010330 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-531119, filed on 20

Mar 2000, ABANDONED Continuation-in-part of Ser. No. WO 1999-US22012, filed on 22 Sep 1999, UNKNOWN

NUMBER DATE _____

PRIORITY INFORMATION: US 1998-101546P 19980923 (60) US 1998-102895P 19981002 (60)

Utility APPLICATION DOCUMENT TYPE: FILE SEGMENT:

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 17043 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

ANSWER 38 OF 38 USPATFULL on STN

ACCESSION NUMBER: 2002:3832 USPATFULL

21509 and 33770, novel human dehydrogenase family TITLE:

members and uses thereof

INVENTOR(S): Meyers, Rachel A., Newton, MA, UNITED STATES

Rudolph-Owen, Laura A., Jamaica Plain, MA, UNITED

STATES

NUMBER KIND DATE _____

PATENT INFORMATION: US 2002001807 A1 20020103 APPLICATION INFO.: US 2001-823901 A1 20010330 (9)

NUMBER DATE _____

PRIORITY INFORMATION: US 2000-193920P 20000331 (60)

LOUIS MYERS, FISH & RICHARDSON Street, Boston, MA, 02110-2804

NUMBER OF CLAIMS: 32

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Draw'

LINE COUNT:

CAS INDEXT DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: LOUIS MYERS, FISH & RICHARDSON P.C., 225 Franklin

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides isolated nucleic acids molecules, designated 21509 or 33770 nucleic acid molecules, which encode novel dehydrogenase members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 21509 or 33770 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 21509 or 33770 gene has been introduced or disrupted. The invention still further provides isolated 21509 or 33770 proteins, fusion proteins, antigenic peptides and anti-21509 or 33770 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

FULL ESTIMATED COST ENTRY SESSION 112.81 113.02

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=> s humanized and antibody and CDR and alanine and grafting L3 3 HUMANIZED AND ANTIBODY AND CDR AND ALANINE AND GRAFTING

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PROCESSING COMPLETED FOR L3

L4 1 DUP REM L3 (2 DUPLICATES REMOVED)

=> d ibib ab 14

L4 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 96062076 MEDLINE DOCUMENT NUMBER: PubMed ID: 7473721

TITLE: Framework residues 71 and 93 of the chimeric B72.3

antibody are major determinants of the conformation

of heavy-chain hypervariable loops.

AUTHOR: Xiang J; Sha Y; Jia Z; Prasad L; Delbaere L T

CORPORATE SOURCE: Saskatoon Cancer Center, Department of Microbiology,

Saskatchewan, Canada.

SOURCE: Journal of molecular biology, (1995 Oct 27) Vol. 253, No.

3, pp. 385-90.

Journal code: 2985088R. ISSN: 0022-2836.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199512

ENTRY DATE: Entered STN: 24 Jan 1996

Last Updated on STN: 24 Jan 1996 Entered Medline: 12 Dec 1995

AB Structural analysis derived from the crystallographic study of the chimeric B72.3 antibody illustrated that some heavy-chain framework residues having atomic interactions with heavy-chain CDR residues may directly affect the conformation of CDR loops. For example, an alanine residue at H71 provides room for packing CDR2/CDR1 and lysine residues at H73 and H93 contribute a salt-bridge to aspartic acid at H55 in CDR2 and a hydrogen bond to the carbonyl group at H96 in CDR3, respectively. We have analysed the contribution of these framework residues to the TAG72-binding affinity. We altered these framework residues by site-directed mutagenesis, and determined the affinity of these mutant chimeric antibodies for the TAG72 antigen by solid phase radioimmunoassay. We found that a single amino acid substitution of alanine by phenylalanine at H71 or lysine by isoleucine at ${\rm H93}$, significantly reduced the binding affinity for the TAG72 antigen by 12 and 20-fold, respectively, whereas the substitution of lysine by alanine at H73 reduced the binding affinity only two-fold. Our results indicate that heavy-chain framework residues alanine at H71 and lysine at H93 of the chimeric B72.3 antibody are the major determinants of the conformation of

heavy-chain CDR2/CDR1 and CDR3 loops, whereas the salt-bridge between lysine at H73 and aspartic acid at H55 is less important. The hydrogen bond between two framework residues, glutamine at H5 and serine at H25 does not affect any CDR conformation. Our results will thus be of importance especially when the humanized B72.3 antibody is constructed by grafting the CDR loops to a human framework. The important framework region interactions must be maintained in the final humanized antibody.

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
12.98 126.00

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 17:10:00 ON 05 MAR 2008 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Feb 29, 2008 (20080229/UP).

=> s humanized and antibody and SDR and alanine and scanning

0 HUMANIZED

0 ANTIBODY

0 SDR

0 ALANINE

0 SCANNING

L5 0 HUMANIZED AND ANTIBODY AND SDR AND ALANINE AND SCANNING

=> FIL MEDLINE BIOSIS CAPLUS

COST IN U.S. DOLLARS SINCE FILE

ENTRY SESSION

TOTAL

FULL ESTIMATED COST 0.24 126.24

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FILE 'BIOSIS' ENTERED AT 17:12:41 ON 05 MAR 2008

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=> s humanized and antibody and alanine and scanning

L6 22 HUMANIZED AND ANTIBODY AND ALANINE AND SCANNING

=> dup rem 16

PROCESSING COMPLETED FOR L6

L7 9 DUP REM L6 (13 DUPLICATES REMOVED)

=> d ibib ab 17 1-9

L7 ANSWER 1 OF 9 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 2007322252 MEDLINE DOCUMENT NUMBER: PubMed ID: 17517649

TITLE: Broadly neutralizing anti-hepatitis B virus

antibody reveals a complementarity determining

region H3 lid-opening mechanism.

AUTHOR: Chi Seung-Wook; Maeng Cheol-Young; Kim Seung Jun; Oh Mee

Sook; Ryu Chun Jeih; Kim Sang Jick; Han Kyou-Hoon; Hong Hyo

Jeong; Ryu Seong Eon

CORPORATE SOURCE: Center for Cellular Switch Protein Structure, Molecular

Cancer Research Center, Korea Research Institute of Bioscience and Biotechnology, Daejeon 305-333, Korea.

SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (2007 May 29) Vol. 104, No. 22,

pp. 9230-5. Electronic Publication: 2007-05-17.

pp. 3230 3. Electionic rubilication, 2007 03

Journal code: 7505876. ISSN: 0027-8424.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals OTHER SOURCE: PDB-2EH7; PDB-2EH8

ENTRY MONTH: 200707

ENTRY DATE: Entered STN: 31 May 2007

Last Updated on STN: 31 Jul 2007 Entered Medline: 30 Jul 2007

The humanized monoclonal antibody HzKR127 recognizes the preS1 domain of the human hepatitis B virus surface proteins with a broadly neutralizing activity in vivo. We present the crystal structures of HzKR127 Fab and its complex with a major epitope peptide. In the complex structure, the bound peptide forms a type IV beta-turn followed by 3(10) helical turn, the looped-out conformation of which provides a structural basis for broad neutralization. Upon peptide binding, the antibody undergoes a dramatic complementarity determining region H3 lid opening. To understand the structural implication of the virus neutralization, we carried out comprehensive alanine—scanning mutagenesis of all complementarity determining region residues in HzKR127 Fab. The functional mapping of the antigen-combining site demonstrates the specific roles of major binding determinants in antigen binding, contributing to the rational design for maximal

L7 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:121061 CAPLUS

DOCUMENT NUMBER: 142:217384

TITLE: Human, chimeric and humanized anti-EGFRvIII antibodies, fragments and conjugates for cancer

diagnosis and therapy

INVENTOR(S): Weber, Richard; Feng, Xiao; Foord, Orit; Green, Larry;

Gudas, Jean; Keyt, Bruce; Liu, Ying; Rathanaswami, Palani; Raya, Robert; Yang, Xiao Dong; Corvalan, Jose;

Foltz, Ian; Jia, Xiao-chi; Kang, Jaspal; King, Chadwick T.; Klakamp, Scott L.; Su, Qiaojuan Jane

PATENT ASSIGNEE(S): Abgenix, Inc, USA

SOURCE: PCT Int. Appl., 207 pp.

CODEN: PIXXD2

humanization and affinity maturation of the antibody.

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICAT	ION NO.		DATE
WO 200501247	=	A2 A3	20050210 20061012		US20564		20040625
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PRIORITY APPLN. INFO.:
                                           US 2003-483145P
                                                              P 20030627
                                                               P 20031126
                                           US 2003-525570P
                                                               P 20040415
                                           US 2004-562453P
                                                               W 20040625
                                           WO 2004-US20564
AΒ
    The present invention relates to novel antibodies, particularly antibodies
    directed against deletion mutants of epidermal growth factor receptor and
    particularly to the type III deletion mutant, EGFRvIII. The antibodies
    are human, chimeric, humanized monoclonal antibodies, fragments
    and conjugated or labeled with fluorochrome, enzyme, radionuclide or
    radiopaque material. Diagnostic and therapeutic formulations of such
    antibodies, and immunoconjugates thereof, are also provided.
    ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
                        2005:99597 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        142:196522
                        Anti-EGFRvIII antibodies, fragments and
                        immunoconjugates for cancer diagnosis and treatment
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TITLE:

INVENTOR(S): Weber, Richard; Feng, Xiao; Foord, Orit; Green, Larry; Gudas, Jean; Keyt, Bruce; Liu, Ying; Rathanaswami, Palani; Raya, Robert; Yang, Xiao Dong; Corvalan, Jose; Foltz, Ian; Jia, Xiao-chi; Kang, Jaspal; King,

Chadwick T.; Klakamp, Scott L.; Su, Qiaojuan Jane

PATENT ASSIGNEE(S): Abgenix, Inc, USA

SOURCE: PCT Int. Appl., 233 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Pat.ent. LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPL	ICATION NO.	DATE	
WO 2005010151 WO 2005010151		0203 WO 2	 004-US20295	20040625	
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SN, TD, TG
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    EP 1638606
                        A2
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            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
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    JP 2007526880
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    IN 2005DN06074
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                                           US 2003-483145P
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PRIORITY APPLN. INFO.:
                                           US 2003-525570P
                                                             P 20031126
                                           US 2004-562453P
                                                             P 20040415
                                           WO 2004-US20295
                                                             W 20040625
```

AB The present invention relates to novel antibodies, particularly antibodies directed against deletion mutants of epidermal growth factor receptor and particularly to the type III deletion mutant, EGFRvIII. The invention also relates to EGFRvIII binding humanized, human, chimeric or monoclonal antibodies, fragments and toxin conjugates for diagnosis and treatment of cancer involving epithelial cell proliferation, such as lung, colon, gastric, renal, prostate, breast, glioblastoma or ovarian carcinoma in human or mammal. Diagnostic and therapeutic formulations of such antibodies, and immunoconjugates thereof, are also provided.

L7 ANSWER 4 OF 9 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 2002449076 MEDLINE DOCUMENT NUMBER: PubMed ID: 12206766

TITLE: Sequence plasticity in the antigen-binding site of a

therapeutic anti-HER2 antibody.

AUTHOR: Gerstner Resi B; Carter Paul; Lowman Henry B

CORPORATE SOURCE: Department of Protein Engineering, Genentech, Inc., 1 DNA

Way, South San Francisco, CA 94080, USA.

SOURCE: Journal of molecular biology, (2002 Aug 30) Vol. 321, No.

5, pp. 851-62.

Journal code: 2985088R. ISSN: 0022-2836.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200209

ENTRY DATE: Entered STN: 4 Sep 2002

Last Updated on STN: 20 Sep 2002 Entered Medline: 19 Sep 2002

We have examined the plasticity of the antigen-combining site of a AΒ high-affinity antibody. In phage-displayed Fab libraries, selected CDR positions and one FR position of the humanized anti-Her2 antibody hu4D5 were substituted with all 20 amino acids. Antigen-binding selections were used to enrich for high-affinity variants, and a large number of sequences were obtained prior to convergence of the selected pool to a small set of clones. As expected, sequence variability of the antigen-binding site is overall diminished compared to known ${\tt IgG}$ sequences; however, certain positions retain much higher variability than others. The sequence variability map of the hu4D5binding site is compared with a map derived from previous alanine -scanning of the antibody. Affinities of soluble Fab fragments for antigen confirm that multiple variants were selected with high affinity for antigen, including one variant with a single point mutation that was about threefold improved in affinity compared to the parental hu4D5. Interestingly, this mutation is one of the most radical

in terms of changing side-chain chemistry (Trp for Asp) and occurs at the most plastic site as calculated by the Wu-Kabat variability coefficient. Thus variability mapping yields information about the antibody -antigen interaction that is useful and complementary to that obtained by alanine scanning mutagenesis.

L7 ANSWER 5 OF 9 MEDLINE on STN DUPLICATE 3

ACCESSION NUMBER: 2002337745 MEDLINE DOCUMENT NUMBER: PubMed ID: 12079396

TITLE: Comprehensive functional maps of the antigen-binding site

of an anti-ErbB2 antibody obtained with shotgun

scanning mutagenesis.

AUTHOR: Vajdos Felix F; Adams Camellia W; Breece Timothy N; Presta

Leonard G; de Vos Abraham M; Sidhu Sachdev S

CORPORATE SOURCE: Department of Protein Engineering, Genentech Inc., 1 DNA

Way, South San Francisco, CA 94080, USA.

SOURCE: Journal of molecular biology, (2002 Jul 5) Vol. 320, No. 2,

pp. 415-28.

Journal code: 2985088R. ISSN: 0022-2836.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200208

ENTRY DATE: Entered STN: 25 Jun 2002

Last Updated on STN: 10 Aug 2002

Entered Medline: 9 Aug 2002

AΒ Shotqun scanning combinatorial mutagenesis was used to study the antigen-binding site of Fab2C4, a humanized monoclonal antibody fragment that binds to the extracellular domain of the human oncogene product ErbB2. Essentially all the residues in the Fab2C4 complementarity determining regions (CDRs) were alanine-scanned using phage-displayed libraries that preferentially allowed side-chains to vary as the wild-type or alanine. A separate homolog-scan was performed using libraries that allowed side-chains to vary only as the wild-type or a similar amino acid residue. Following binding selections to isolate functional clones, DNA sequencing was used to determine the wild-type/mutant ratios at each varied position, and these ratios were used to assess the contributions of each side-chain to antigen binding. The alanine-scan revealed that most of the side-chains that contribute to antigen binding are located in the heavy chain, and the Fab2C4 three-dimensional structure revealed that these residues fall into two groups. The first group consists of solvent-exposed residues which likely make energetically favorable contacts with the antigen and thus comprise the functional-binding epitope. The second group consists of buried residues with side-chains that pack against other CDR residues and apparently act as scaffolding to maintain the functional epitope in a binding-competent conformation. The homolog-scan involved subtle mutations, and as a result, only a subset of the side-chains that were intolerant to alanine substitutions were also intolerant to homologous substitutions. In particular, the 610 A2 functional epitope surface revealed by alanine-scanning shrunk to only 369 A2 when mapped with homologous substitutions, suggesting that this smaller subset of side-chains may be involved in more precise contacts with the antigen. The results validate shotgun scanning as a rapid and accurate method for determining the functional contributions of individual side-chains involved in protein-protein interactions.

L7 ANSWER 6 OF 9 MEDLINE on STN DUPLICATE 4

ACCESSION NUMBER: 2001495667 MEDLINE DOCUMENT NUMBER: PubMed ID: 11544314

TITLE: Humanization and epitope mapping of neutralizing anti-human

Fas ligand monoclonal antibodies: structural insights into

Fas/Fas ligand interaction.

AUTHOR: Nisihara T; Ushio Y; Higuchi H; Kayagaki N; Yamaguchi N;

Soejima K; Matsuo S; Maeda H; Eda Y; Okumura K; Yagita H

CORPORATE SOURCE: The Chemo-Sero-Therapeutic Research Institute, Kumamoto,

Japan.

SOURCE: Journal of immunology (Baltimore, Md.: 1950), (2001 Sep

15) Vol. 167, No. 6, pp. 3266-75.

Journal code: 2985117R. ISSN: 0022-1767.

PUB. COUNTRY: United States

DOCUMENT TYPE: (COMPARATIVE STUDY)

Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200112

ENTRY DATE: Entered STN: 10 Sep 2001

Last Updated on STN: 22 Jan 2002 Entered Medline: 12 Dec 2001

AB Fas ligand (L)/CD95L, a proapoptotic member of the TNF family, is a potential target for clinical intervention in various diseases. In the present study, we generated a humanized anti-human FasL mAb and characterized the epitopes of neutralizing mAbs by extensive alanine-scanning mutagenesis of human FasL. The predicted molecular model of FasL trimer revealed that the mAbs recognize

largely overlapped conformational epitopes that are composed of two clusters, one around the outer tip-forming D-E loop and another near the top of FasL. Both of these sites on FasL are critically involved in the direct interaction with the corresponding receptor, Fas. These results suggest that the mAbs efficiently neutralize FasL cytotoxicity by masking both of these FasL/Fas contact sites.

L7 ANSWER 7 OF 9 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 2001700894 MEDLINE DOCUMENT NUMBER: PubMed ID: 11741351

TITLE: Adapting pharmacokinetic properties of a humanized

anti-interleukin-8 antibody for therapeutic applications using site-specific pegylation.

AUTHOR: Leong S R; DeForge L; Presta L; Gonzalez T; Fan A; Reichert M; Chuntharapai A; Kim K J; Tumas D B; Lee W P; Gribling P;

Snedecor B; Chen H; Hsei V; Schoenhoff M; Hale V; Deveney J; Koumenis I; Shahrokh Z; McKay P; Galan W; Wagner B;

Narindray D; Hebert C; Zapata G

CORPORATE SOURCE: Department of Immunology, Genentech, Inc., 1 DNA Way, South

San Francisco, CA 94080, USA.. steven.leong@maxygen.com

SOURCE: Cytokine, (2001 Nov 7) Vol. 16, No. 3, pp. 106-19.

Journal code: 9005353. ISSN: 1043-4666.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200203

ENTRY DATE: Entered STN: 20 Dec 2001

Last Updated on STN: 12 Mar 2002 Entered Medline: 11 Mar 2002

AB A neutralizing anti-interleukin-(IL-)8 monoclonal antibody was humanized by grafting the complementary determining regions onto the human IgG framework. Subsequent alanine scanning mutagenesis and phage display enabled the production of an affinity matured antibody with a >100-fold improvement in IL-8 binding.

Antibody fragments can be efficiently produced in Escherichia coli

but have the limitation of rapid clearance rates in vivo. The Fab' fragment of the antibody was therefore modified with polyethylene glycol (PEG) in order to obtain a more desirable pharmacokinetic profile. PEG (5-40 kDa) was site-specifically conjugated to the Fab' via the single free cysteine residue in the hinge region. In vitro binding and bioassays showed little or no loss of activity. The pharmacokinetic profiles of the 20 kDa, 30 kDa, 40 kDa, and 40 kDa branched PEG-Fab' molecules were evaluated in rabbits. Relative to the native Fab', the clearance rates of the PEGylated molecules were decreased by 44-175-fold. In a rabbit ear model of ischemia/reperfusion injury, all PEGylated Fab' molecules were as efficacious in reducing oedema as the original monoclonal antibody. These studies demonstrate that it is possible to customize the pharmacokinetic properties of a Fab' while retaining its antigen binding activity. Copyright 2001 Academic Press.

L7 ANSWER 8 OF 9 MEDLINE ON STN DUPLICATE 6

ACCESSION NUMBER: 2000059393 MEDLINE DOCUMENT NUMBER: PubMed ID: 10590259

TITLE: Mapping and characterization of the epitope(s) of Sch

55700, a humanized mAb, that inhibits human IL-5.

AUTHOR: Zhang J; Kuvelkar R; Murgolo N J; Taremi S S; Chou C C;

Wang P; Billah M M; Egan R W

CORPORATE SOURCE: Schering-Plough Research Institute, K-15C113/1600, 2015

Galloping Hill Road, Kenilworth, New Jersey 07033, USA.

SOURCE: International immunology, (1999 Dec) Vol. 11, No. 12, pp.

1935-44.

Journal code: 8916182. ISSN: 0953-8178.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200001

ENTRY DATE: Entered STN: 4 Feb 2000

Last Updated on STN: 8 Oct 2002 Entered Medline: 24 Jan 2000

AΒ mAb against human IL-5 inhibit pulmonary eosinophilia, tissue damage and airway hyper-reactivity in allergic animal models. Sch 55700 is a humanized, neutralizing anti-IL-5 antibody. To better understand the molecular mechanism by which Sch 55700 blocks IL-5 bioactivity, we have mapped its epitope by scanning IL-5 with synthetic peptides. Those peptides containing a region, ERRRV, corresponding to amino acids 89-93 of IL-5 specifically interact with both Sch 55700 and its parental rat IgG, 39D10. Among the five residues of this region, all three arginine residues were particularly critical for interaction of these peptides with Sch 55700. We further characterized this region by alanine scanning using site-directed mutagenesis. Examination of COS-expressed IL-5 mutants by Western blot showed that single mutations of E(89), R(90), R(91) or R(92) to alanine caused a loss of IL-5 binding to both Sch 55700 and 39D10. We further demonstrated in surface plasmon resonance studies using a BIAcore biosenosor that E(89), R(90) or R(91) are involved in the interaction between IL-5 and its receptor alpha subunit. Based upon the findings here and previously reported structures of the IL-5 and 39D10 variable region, we propose a model suggesting that the molecular interactions between the IL-5 and Sch 55700 mainly involve several ion pair interactions. We conclude that Sch 55700 occupies a region, ERRR, on IL-5 that is essential for its interaction with the receptor and thereby blocks IL-5 bioactivity.

L7 ANSWER 9 OF 9 MEDLINE on STN ACCESSION NUMBER: 1998428671 MEDLINE

DOCUMENT NUMBER: PubMed ID: 9753694

TITLE: VEGF and the Fab fragment of a humanized

neutralizing antibody: crystal structure of the

complex at 2.4 A resolution and mutational analysis of the

interface.

AUTHOR: Muller Y A; Chen Y; Christinger H W; Li B; Cunningham B C;

Lowman H B; de Vos A M

CORPORATE SOURCE: Department of Protein Engineering Genentech, Inc. 1 DNA

Way, South San Francisco, CA 94080, USA.

SOURCE: Structure (London, England: 1993), (1998 Sep 15) Vol. 6,

No. 9, pp. 1153-67.

Journal code: 101087697. ISSN: 0969-2126.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals
OTHER SOURCE: PDB-1BJ1; PDB-1BJSF

ENTRY MONTH: 199812

ENTRY DATE: Entered STN: 15 Jan 1999

Last Updated on STN: 15 Jan 1999

Entered Medline: 3 Dec 1998

BACKGROUND: Vascular endothelial growth factor (VEGF) is a highly specific AΒ angiogenic growth factor; anti-angiogenic treatment through inhibition of receptor activation by VEGF might have important therapeutic applications in diseases such as diabetic retinopathy and cancer. A neutralizing anti-VEGF antibody shown to suppress tumor growth in an in vivo murine model has $\bar{b} een$ used as the basis for production of a humanized version. RESULTS: We present the crystal structure of the complex between VEGF and the Fab fragment of this humanized antibody, as well as a comprehensive alaninescanning analysis of the contact residues on both sides of the interface. Although the VEGF residues critical for antibody binding are distinct from those important for high-affinity receptor binding, they occupy a common region on VEGF, demonstrating that the neutralizing effect of antibody binding results from steric blocking of VEGF-receptor interactions. Of the residues buried in the VEGF-Fab interface, only a small number are critical for high-affinity binding; the essential VEGF residues interact with those of the Fab fragment, generating a remarkable functional complementarity at the interface. CONCLUSIONS: Our findings suggest that the character of antigen-antibody interfaces is similar to that of other protein-protein interfaces, such as ligand-receptor interactions; in the case of VEGF, the principal difference is that the residues essential for binding to the Fab fragment are concentrated in one continuous segment of polypeptide chain, whereas those essential for binding to the receptor are distributed over four different segments and span across the dimer interface.

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L3

L5

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L1 38 S CDR AND SDR AND ALANINE AND REPLACING AND AFFINITY AND GRAFTI

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3 S HUMANIZED AND ANTIBODY AND CDR AND ALANINE AND GRAFTING

L4 1 DUP REM L3 (2 DUPLICATES REMOVED)

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